CONTENTS OF VOLUME 23

Number 1 — February 1993

	Editorial	1
	Parasitological Calendar	3
	Parasitological Societies of the World	7
ZHOU ZU-JIE and YU SEN-HAI	Obituary: Mao Shou-pai, 1921–1992	9
D. I. PRITCHARD	Points in Question: Does the duration of antigen retention in draining lymphoid tissue following GI nematode infection determine the 'responder phenotype' of the host?	11
General Papers		
K. HAGIWARA, M. TSUJI, C. ISHIHARA, M. TAJIMA, T. KUROSAWA, H. IWAI and K. TAKAHASHI	The Bo-RBC-SCID mouse model for evaluating the efficacy of anti-theilerial drugs	13
R. PETKEVIČIŪTĖ and K. V. REGEL	Chromosomes of *Pelichnibothrium speciosum* (Cestoda: Tetraphyllidea)	17
I. BEVERIDGE, N. B. CHILTON and R. H. ANDREWS	Sibling species within *Macropostrongyloides baylisi* (Nematoda: Strongyloidea) from macropodid marsupials	21
J. E. ELLIS, J. M. WINGFIELD, D. COLE, P. F. L. BOREHAM and D. LLOYD	Oxygen affinities of metronidazole-resistant and -sensitive stocks of *Giardia intestinalis*	35
G. B. L. HARRISON, D. D. HEATH, R. P. DEMPSTER, S. B. LAWRENCE, M. W. LIGHTOWLERS and M. D. RICKARD	Identification of host-protective antigens of *Taenia ovis* oncospheres	41
K. ASANO, K. MURAMATSU and K. OKAMOTO	Lymphokine production by mesenteric lymph node cells from BALB/c mice during *Hymenolepis nana* infection	51
E. M. BENNET, P. A. HEATH and C. BRYANT	The effects of changes in the definitive host environment on the metabolism of *Hymenolepis diminuta* during growth and maturation	57
J.-L. JUSTINE and J.-R. BONAMI	Virus-like particles in a monogenean (Platyhelminthes) parasitic in a marine fish	69
A. H. FELL and P. M. PRESTON	Proliferation of *Theileria annulata* and *Theileria parva* macroschizont-infected bovine cells in *scid* mice	77
C.-C. SONG, X.-Z. YUAN, L.-Y. SHEN, X.-X. GAN and J.-Z. DING	The effect of cobalt-60 irradiation on the infectivity of *Toxoplasma gondii*	89

B. J. Blackburn, R. J. Buist, C. Hudspeth and M. Novak	Phosphorus metabolites of liver from mice infected with *Hymenolepis microstoma*	95
G. Nascetti, R. Cianchi, S. Mattiucci, S. D'Amelio, P. Orecchia, L. Paggi, J. Brattey, B. Berland, J. W. Smith and L. Bullini	Three sibling species within *Contracaecum osculatum* (Nematoda, Ascaridida, Ascaridoidea) from the Atlantic Arctic-Boreal region: reproductive isolation and host preferences	105
J. El-On, F. Cawich, D. A. Evans and L. Weinrauch	Topical treatment of cutaneous leishmaniasis in Belize: *in vitro* and *in vivo* studies with *Leishmania mexicana*	121
Research Notes		
B. Fried, K. Beers and P. D. Lewis, Jr	Lipids in the broodsac of *Leucochloridium variae* (Digenea, Leucochloridiidae) and its snail host *Succinea ovalis*	129
G. R. Anderson and S. C. Barker	Species differentiation in the Didymozoidae (Digenea): restriction fragment length differences in internal transcribed spacer and 5.8S ribosomal DNA	133
S. C. Barker and T. H. Cribb	Sporocysts of *Mesostephanus haliasturis* (Digenea) produce miracidia	137
D. C. de Graaf, P. Berghen, H. Hilderson, H. De Cock and J. Vercruysse	Identification and purification of *Cooperia oncophora*-specific antigens to improve serological diagnosis	141
M. M. G. Gozar and A. S. Bagnara	Identification of a *Babesia bovis* gene with homology to the small subunit ribosomal RNA gene from the 35-kilobase circular DNA of *Plasmodium falciparum*	145
R. A. Putland, S. M. Thomas, D. I. Grove and A. M. Johnson	Analysis of the 18S ribosomal RNA gene of *Strongyloides stercoralis*	149
Book Review		
P. F. L. Boreham	*Principles of Pharmacology: A Tropical Approach.* By D. T. Okpako	153
	Meeting Reports	155
	Announcement	161
	Instructions to Contributors	i

Number 2		April 1993
	Parasitological Calendar	163
I. Beveridge and D. M. Spratt	Alain G. Chabaud: An appreciation	165
D. I. Pritchard	Points in Question: Atopy and helminth parasites	167

General Papers

D. BLAIR	The phylogenetic position of the aspidobothrea within the parasitic flatworms inferred from ribosomal RNA sequence data	169
L.-A. TCHUEM TCHUENTE, D. IMBERT-ESTABLET, B. DELAY and J. JOURDANE	Choice of mate, a reproductive isolating mechanism between *Schistosoma intercalatum* and *S. mansoni* in mixed infections	179
I. PAPERNA	Electron microscopic study of *Schellackia cf. agamae* sporozoite infection in mosquitoes	187
S. A. NADLER and M. S. HAFNER	Systematic relationships among pocket gopher chewing lice (Phthiraptera: Trichodectidae) inferred from electrophoretic data	191
T. L. W. ROTHWELL, R. G. WINDON, B. A. HORSBURGH and B. H. ANDERSON	Relationship between eosinophilia and responsiveness to infection with *Trichostrongylus colubriformis* in sheep	203
P. RAMASAMY and R. BHUVANESWARI	The ultrastructure of the tegument and clamp attachment organ of *Gotocotyla bivaginalis* (Monogenea, Polyopisthocotylea)	213
I. J. EAST, C. J. FITZGERALD, R. D. PEARSON, R. A. DONALDSON, T. VUOCOLO, L. C. CADOGAN, R. L. TELLAM and C. H. EISEMANN	*Lucilia cuprina:* inhibition of larval growth induced by immunization of host sheep with extracts of larval peritrophic membrane	221
P. SRIVASTAVA, S. K. PURI, G. P. DUTTA and V. C. PANDEY	Effect of chloroquine on hepatic heme-oxygenase during *Plasmodium berghei* infection in mice	231
P. HOURDIN, D. RONDELAUD and J. CABARET	The development of *Fasciola hepatica* parthenitae in *Lymnaea truncatula* by modification of *Muellerius capillaris* infection	235
K. P. PIPER and D. J. MCLAREN	The role of T cells in vaccine immunity in the murine model of schistosomiasis *mansoni*	245
R. L. GRICE and P. PROCIV	*In vitro* embryonation of *Syphacia obvelata* eggs	257
E. A. MUNN, T. S. SMITH, M. GRAHAM, A. S. TAVERNOR and C. A. GREENWOOD	The potential value of integral membrane proteins in the vaccination of lambs against *Haemonchus contortus*	261
T. S. SMITH, E. A. MUNN, M. GRAHAM, A. S. TAVERNOR and C. A. GREENWOOD	Purification and evaluation of the integral membrane protein H11 as a protective antigen against *Haemonchus contortus*	271

Research Notes

J. WALKER and J. BARRETT	Evidence for a G protein system in the tegumental brush border plasma membrane of *Hymenolepis diminuta*	281

N. A. WATSON and K. ROHDE	Ultrastructural evidence for an adelphotaxon (sister group) to the Neodermata (Platyhelminthes)	285
	Meeting Reports	291
	Announcement	295
	Instructions to Contributors	i

Number 3 May 1993

	Parasitological Calendar	297
B. A. ASTAFYEV	Centenary Biographical Note—Varvara Petrovna Podyapolskaya 1892–1975	299
MYINT-OO, J. M. UPSTON, A. M. GERO and W. J. O'SULLIVAN	Reduced transport of adenosine in erythrocytes from patients with β-thalassaemia	303
C. E. LAWRENCE and D. I. PRITCHARD	Differential secretion of acetylcholinesterase and proteases during the development of *Heligmosomoides polygyrus*	309
H. HURD, K. S. MACKENZIE and L. H. CHAPPELL	Anthelmintic effects of cyclosporin A on protoscoleces and secondary hydatid cysts of *Echinococcus granulosus* in the mouse	315
D. R. HENNESSY, N. C. SANGSTER, J. W. STEEL and G. H. COLLINS	Comparative pharmacokinetic behaviour of albendazole in sheep and goats	321
D. G. BAKER, L. J. GERSHWIN and D. M. HYDE	Cellular and chemical mediators of type 1 hypersensitivity in calves infected with *Ostertagia ostertagi:* mast cells and eosinophils	327
D. G. BAKER, L. J. GERSHWIN, S. N. GIRI and C. LI	Cellular and chemical mediators of type 1 hypersensitivity in calves infected with *Ostertagia ostertagi:* histamine, prostaglandin D_2, prostaglandin E_2 and leukotriene C_4	333
R. MADHAVI and U. SHAMEEM	Cercariae and metacercariae of *Stephanostomum cloacum* (Trematoda: Acanthocolpidae)	341
CH. DHANUMKUMARI, K. HANUMANTHA RAO and K. SHYAMASUNDARI	A morphological and histochemical study of the gland cells of a cercaria referable to the genus *Acanthoparyphium* (Trematoda: Echinostomatidae)	349
C. ROJAS, C. GUTIERREZ, S. LITVAK and A. SOLARI	Nuclear and kinetoplast DNA synthesis in *Trypanosoma cruzi*, autoradiographical study with DNA polymerase inhibitors	361
G. D. BURCHARD and G. PRANGE	Serum-independent and serum-dependent cytoadherence in the interaction of *Entamoeba histolytica* with mammalian target cells	365
J. H. GILL and E. LACEY	*In vitro* activity of paraherquamide against the free-living stages of *Haemonchus contortus, Trichostrongylus colubriformis* and *Ostertagia circumcincta*	375

T. SCHNIEDER	The diagnostic antigen encoded by gene fragment Dv3-14: a major sperm protein of *Dictyocaulus viviparus*	383
F. R. ROUBAL	Comparative histopathology of *Longicollum* (Acanthocephala: Pomphorhynchidae) infection in the alimentary tract and spleen of *Acanthopagrus australis* (Pisces: Sparidae)	391
Research Notes		
S. E. NOTT and A. S. BAGNARA	The toxicity of antifolates in *Babesia bovis*	399
I. POITOU, E. BAEZA and C. BOULARD	Analysis of the results obtained using a technic of experimental primary infestation with *Fasciola hepatica* in the rat	403
J. D. PENSCHOW, R. B. GASSER, P. E. DARLING and G. F. MITCHELL	Female-specific genomic PCR sequences from *Schistosoma mansoni* as probes for hybridization histochemistry	407
C. L. YADAV, R. P. UPPAL and S. KALRA	An outbreak of haemonchosis associated with anthelmintic resistance in sheep	411
P. J. O'DONOGHUE, R. B. GASSER and A. TRIBE	New host record for the entodiniomorphid ciliate, *Troglodytella abrassarti*, from siamangs (*Hylobates syndactylus*)	415
M. H. ROOS and W. N. GRANT	Species-specific PCR for the parasitic nematodes *Haemonchus contortus* and *Trichostrongylus colubriformis*	419
R. D. ADLARD, S. C. BARKER D. BLAIR and T. H. CRIBB	Comparison of the second internal transcribed spacer (ribosomal DNA) from populations and species of Fasciolidae (Digenea)	423
M. LIANCE, F. NEMATI, C. BORIES and P. COUVREUR	Experience with doxorubicin-bound polyisohexylcyanoacrylate nanoparticles on murine alveolar echinococcosis of the liver	427
	Meeting Reports	431
	Book Reviews	437
	Instructions to Contributors	i

July 1993

Number 4

Special Issue: Proceedings of the Joint Conference of the Australian and New Zealand Societies for Parasitology, 1992

P. F. L. BOREHAM and R. E. BOREHAM	Preface	439
Presidential Address		
D. M. BISHOP	The changing face of parasitology in New Zealand	443
Physiological Status of the Host and the Implications for Parasite Response and Treatment		
D. R. HENNESSY	Introduction	449

Q. A. McKellar	Interactions of *Ostertagia* species with their bovine and ovine hosts	451
I. A. Barger	Influence of sex and reproductive status on susceptibility of ruminants to nematode parasitism	463
T. Kambara, R. G. McFarlane, T. J. Abell, R. W. McAnulty and A. R. Sykes	The effect of age and dietary protein on immunity and resistance in lambs vaccinated with *Trichostrongylus colubriformis*	471
D. N. Ali and D. R. Hennessy	The effect of feed intake on the rate of flow of digesta and the disposition and activity of oxfendazole in sheep	477
G. D Gray and H. S. Gill	Host genes, parasites and parasitic infections	485

Phylogenetics and Parasitology: Methods and Applications

D. Blair	Dedication: Professor John C. Pearson	497
R. D. M. Page	Parasites, phylogeny and cospeciation	499
A. G. Rodrigo	Calibrating the bootstrap test of monophyly	507
A. M. Paterson, R. D. Gray and G. P. Wallis	Parasites, petrels and penguins: does louse presence reflect seabird phylogeny?	515
D. Blair and S. C. Barker	Affinities of the Gyliauchenidae: utility of the 18S rRNA gene for phylogenetic inference in the Digenea (Platyhelminthes)	527
S. C. Barker, D. Blair, T. H. Cribb and K. Tonion	Phylogenetic position of *Heronimus mollis* (Digenea): evidence from 18S ribosomal RNA	533

Biological Control and Parasites

P. J. Waller and M. Larsen	The role of nematophagous fungi in the biological control of nematode parasites of livestock	539

Number 5 August 1993

	Parasitological Calendar	547

Points in Question

D. I. Pritchard	Why do some parasitic nematodes secrete acetylcholinesterase (AChE)?	549
C. A. Hall	A lateral viewpoint for parasite control	550

General Papers

A. I. Khan, Y. Horii, R. Tiuria, Y. Sato and Y. Nawa	Mucosal mast cells and the expulsive mechanisms of mice against *Strongyloides venezuelensis*	551
T. M. E. Davis, A. E. Brown and C. D. Smith	Metabolic disturbances in *Plasmodium coatneyi*-infected rhesus monkeys	557

M. Barbieri, S. Sterla, J. Battistoni and A. Nieto	High performance latex reagent for hydatid serology using an *Echinococcus granulosus* lipoprotein antigen fraction purified from cyst fluid in one step	565
J. T. Rothwell and N. C. Sangster	An *in vitro* assay utilising parasitic larval *Haemonchus contortus* to detect resistance to closantel and other anthelmintics	573
R. B. Gasser, D. J. Jenkins E. Paolillo, L. Parada, P. Cabrera and P. S. Craig	Serum antibodies in canine echinococcosis	579
E. Wandurska-Nowak and K. Boczoń	Dynamics of rat muscle mitochondria uncoupling in trichinellosis	587
P. L. Ey, J. M. Darby, R. H. Andrews and G. Mayrhofer	*Giardia intestinalis:* detection of major genotypes by restriction analysis of gene amplification products	591
J. D. Shields and C. G. Earley	*Cancrion australiensis* new species (Isopoda: Entoniscidae) found in *Thalamita sima* (Brachyura: Portunidae) from Australia	601
J. A. Upcroft, A. Healey and P. Upcroft	Chromosomal duplication in *Giardia duodenalis*	609
N. J. Marks, D. W. Halton, C. Shaw and C. F. Johnston	A cytochemical study of the nervous system of the proteocephalidean cestode, *Proteocephalus pollanicola*	617
P. Nansen, P. E. Steffan, C. M. Christensen, L. C. Gasbarre, J. Monrad, J. Grønvold and S. AA. Henriksen	The effect of experimental trichostrongyle infections of housed young calves on the subsequent course of natural infection on pasture	627
S. Byrnes, R. Eaton and M. Kogut	*In vitro* interleukin-1 and tumor necrosis factor-alpha production by macrophages from chickens infected with either *Eimeria maxima* or *Eimeria tenella*	639
C.-K. Chuang, Y. Nakajima, S. Sato, N. Kagei and K. Araki	A case of spirurid larva infection in the anterior chamber of the human eye	647
P. G. C . Douch and P. E. Morum	The effect of age on the response of Romney sheep to gastrointestinal nematodes during grazing	651
Research Notes		
P. Alcántara and D. Correa	Human humoral immune responses against *Trichinella spiralis*	657
P. Venkatesan, R. G. Finch and D. Wakelin	MHC haplotype influences primary *Giardia muris* infections in H-2 congenic strains of mice	661
J. Abdul-Salam and B. S. Sreelatha	A survey of didymozoid trematodes of the barracuda *Sphyraena obtusata* from Kuwait Bay	665
W. M. Spice and J. P. Ackers	Influence of bacteria on electrophoretic proteinase patterns of *Entamoeba histolytica* isolates	671
M.-F. Shaio, P.-R. Lin and C.-S. Lee	Killing of *Trichomonas vaginalis* by complement-mediated lysis is not associated with the presence of *Trichomonas vaginalis* virus	675

C. DE ARMAS-SERRA, C. GIMENEZ-PARDO and F. RODRIGUEZ-CAABEIRO	Presence of proteolytic enzymes in *Dicrocoelium dendriticum* eggs	681
D. J. STENZEL, M. F. CASSIDY and P. F. L. BOREHAM	Morphology of *Blastocystis* sp. isolated from circus animals	685
J. Y. M. WONG and J. P. OPDEBEECK	Immunity in vaccinated cattle exposed to experimental and natural infestations with *Boophilus microplus*	689
N. B. CHILTON and C. M. BULL	A comparison of the off-host survival times of larvae and nymphs of two species of reptile ticks	693
P. M. LOISEAU, L. MARCHAT, P. DEPREUX, P. GAYRAL and F. PETEK	Research for new filaricides by using phosphoenolpyruvate-carboxylase from *Molinema dessetae* (Nematoda: Filarioidea) as biochemical target	697
	Book Review	699
	Meeting Report	701
	Instructions to Contributors	i

Number 6 September 1993

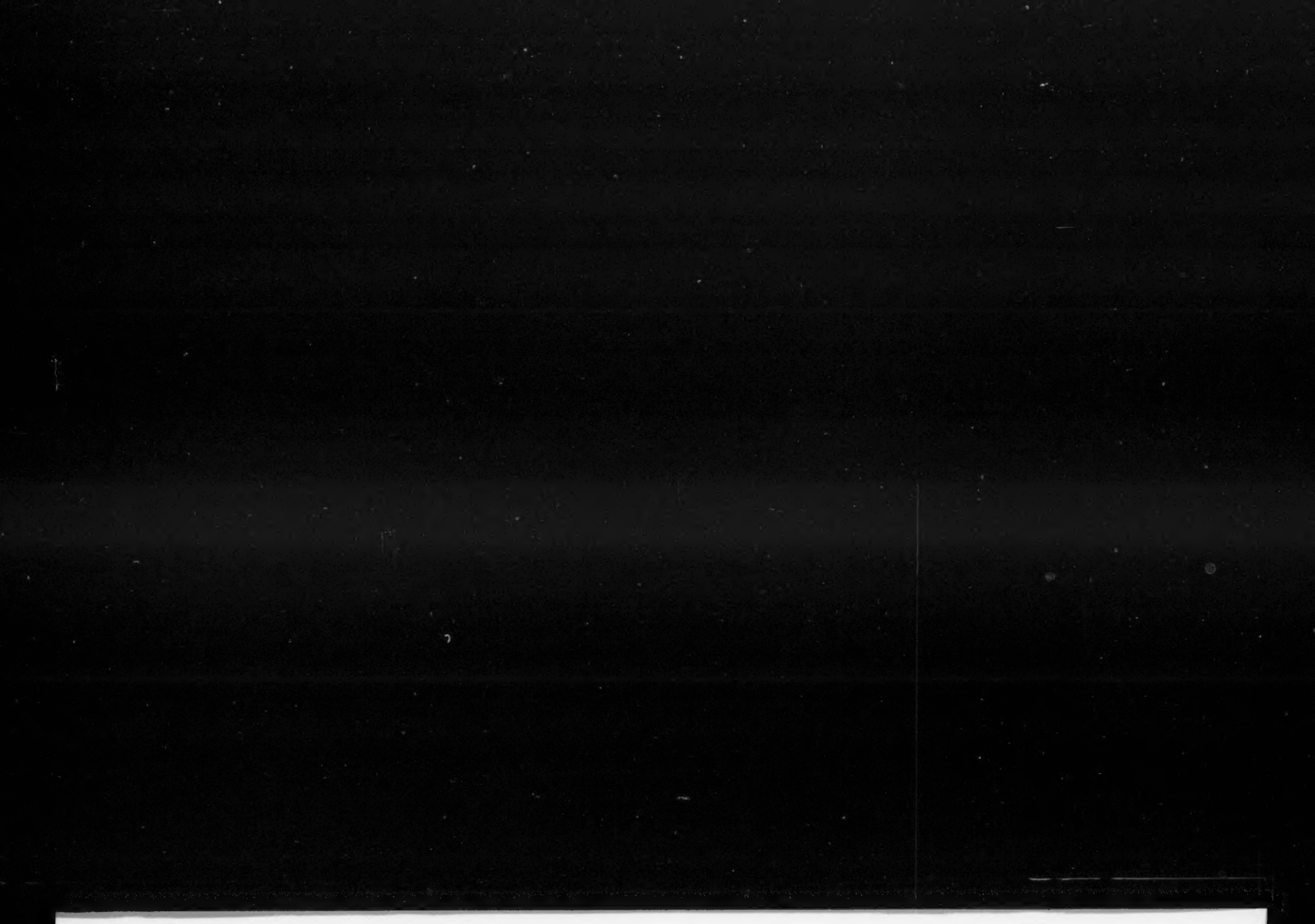
	Parasitological Calendar	703
K. ROHDE, C. HEFFORD, J. T. ELLIS, P. R. BAVERSTOCK, A. M. JOHNSON, N. A. WATSON and S. DITTMANN	Contributions to the phylogeny of platyhelminthes based on partial sequencing of 18S ribosomal DNA	705
K. ROHDE and N. A. WATSON	Spermatogenesis in *Udonella* (Platyhelminthes, Udonellidea) and the phylogenetic position of the genus	725
N. A. WATSON and K. ROHDE	Ultrastructure of sperm and spermiogenesis of *Kronborgia isopodicola* (Platyhelminthes, Fecampiidae)	737
M. M. EL-NAGGAR	Ultrastructural observations on the hamuli of the monogenean gill parasite *Cichlidogyrus halli typicus*	745
H. PALM, H. MÖLLER and F. PETERSEN	*Otobothrium penetrans* (Cestoda; Trypanorhyncha) in the flesh of belonid fish from Philippine waters	749
K. FUKUDA, T. FUJINO, T. OGUMA and F. HAMAJIMA	Studies on host specificity in *Paragonimus westermani:* ultrastructural study of inflammatory reactions to the parasite in rat muscles	757
N. GASNIER, J. CABARET and V. SUAREZ	Species and morphs in the Ostertagiinae: an allozyme study of seven species	765
B. HENTRICH and R. BÖSE	Cryopreservation of *Babesia divergens* from jirds as a live vaccine for cattle	771

G. J. KLASSEN	A new species of *Haliotrema* (Monogenea: Ancyrocephalidae) from a Japanese puffer fish *Takifugu niphobles* (Tetraodontiformes: Tetraodontidae)	777
J. A. UPCROFT, R. W. MITCHELL and P. UPCROFT	The 3′ terminal region of a gene encoding a cysteine-rich surface protein in *Giardia duodenalis*	785
R. LUMB, J. SWIFT, C. JAMES, K. PAPANAOUM and T. MUKHERJEE	Identification of the microsporidian parasite, *Enterocytozoon bieneusi* in faecal samples and intestinal biopsies from an AIDS patient	793
P. O. J. OGBUNUDE and M. M. DZIMIRI	Expression of a channel-like pathway for adenosine transport in *Leishmania donovani* promastigotes	803
Research Notes		
A. ARMSON, W. B. GRUBB and A. H. W. MENDIS	*Strongyloides ratti*: fumarate reductase and succinate dehydrogenase activities of infective larvae	809
A. H. W. MENDIS, W. B. GRUBB and A. ARMSON	An alternative protocol for the serial passage and maintenance of a homogonic strain of *Strongyloides ratti* in female Sprague-Dawley rats	813
A. ARMSON, R. C. A. THOMPSON, J. A. REYNOLDSON, W. B. GRUBB and A. H. W. MENDIS	The efficacy of two electron transport inhibitors (720C80 and 993C76) on murine strongyloidiasis: a comparison with albendazole	815
C. L. YADAV, H. S. GREWAL and D. P. BANERJEE	Susceptibility of two crossbreeds of sheep to *Haemonchus contortus*	819
	Book Reviews	823
	Instructions to Contributors	i

Number 7 November 1993

	Parasitological Calendar	827
W. APINHASMIT, P. SOBHON, P. SAITONGDEE and E. S. UPATHAM	*Opisthorchis viverrini*: changes of the tegumental surface in newly excysted juvenile, first-week and adult flukes	829
D. L. EMERY, B. M. WAGLAND and S. J. MCCLURE	Rejection of heterologous nematodes by sheep immunized with larval or adult *Trichostrongylus colubriformis*	841
C. CALVO-MÉNDEZ, J. C. VILLAGÓMEZ-CASTRO and E. LÓPEZ-ROMERO	Ornithine decarboxylase activity in *Entamoeba invadens*	847
C. T. BA, X. Q. WANG, F. RENAUD, L. EUZET, B. MARCHAND and T. DE MEEÛS	Diversity and specificity in cestodes of the genus *Moniezia*: genetic evidence	853

L. Ròzsa	Speciation patterns of ectoparasites and "straggling" lice	859
H. Sugaya, T. Abe, K. Yoshimura and O. Sasaki	Antigen dependent release of interleukin 5 *in vitro* from spleen cells of mice infected with *Angiostrongylus cantonensis*	865
F. R. Roubal and B. K. Diggles	The rate of development of *Polylabroides multispinosus* (Monogenea : Microcotylidae) parasitic on the gills of *Acanthopagrus australis* (Pisces : Sparidae)	871
B. K. Diggles, F. R. Roubal and R. J. G. Lester	The influence of formalin, benzocaine and hyposalinity on the fecundity and viability of *Polylabroides multispinosus* (Monogenea : microcotylidae) parasitic on the gills of *Acanthopagrus australis* (Pisces : Sparidae)	877
J. T. Rothwell, N. C. Sangster, G. A. Conder, R. J. Dobson and S. S. Johnson	Kinetics of expulsion of *Haemonchus contortus* from sheep and jirds after treatment with closantel	885
G. C. Kearn, R. James and R. Evans-Gowing	Insemination and population density in *Entobdella soleae,* a monogenean skin parasite of the common sole, *Solea solea*	891
T. Tappenden, G. C. Kearn and R. Evans-Gowing	Fertilization and the functional anatomy of the germarium in the monogenean *Entobdella soleae*	901
N. I. Bughio, G. M. Faubert and R. Prichard	Characterization and biological activities of anti-*Brugia pahangi* tubulin monoclonal antibodies	913
P. R. Torgerson and S. Lloyd	The B cell dependence of *Haemonchus contortus* antigen-induced lymphocyte proliferation	925
F. Nakamura and K. Okamoto	Reconsideration of the effects of selfing on the viability of *Hymenolepis nana*	931
R. Poulin	The disparity between observed and uniform distributions: a new look at parasite aggregation	937
J. M. Behnke, R. Rose and P. Garside	Sensitivity to ivermectin and pyrantel of *Ancylostoma ceylanicum* and *Necator americanus*	945
B. J. Blackburn, C. Hudspeth and M. Novak	Proton nuclear magnetic resonance analysis of liver metabolites from mice infected with *Mesocestoides vogae*	953
Research Notes		
J. Ženka and A. Jegorov	Substrate specificity of fumarate reductase activity of *Taenia crassiceps* mitochondria	959
S. C. Barr	Anti-heart tissue antibodies during experimental infections with pathogenic and non-pathogenic *Trypanosoma cruzi* isolates in dogs	961
J. Bowles and D. P. McManus	NADH dehydrogenase 1 gene sequences compared for species and strains of the genus *Echinococcus*	969
	Instructions to Contributors	i

	Parasitological Calendar	973
W. C. CAMPBELL	Centenary Biographical Note—Chester Albern Herrick	975
A. M. SMITH, A. J. DOWD, M. HEFFERNAN, C. D. ROBERTSON and J. P. DALTON	*Fasciola hepatica:* a secreted cathepsin L-like proteinase cleaves host immunoglobulin	977
W. P. MICHALSKI, S. J. PROWSE, A. BACIC and K. J. FAHEY	Molecular characterisation of peanut agglutinin-binding glycoproteins from *Eimeria tenella*	985
K. YOSHIMURA, H. SUGAYA, K. ISHIDA, W. I. KHAN, T. ABE and K. UNNO	The effect of cyclosporin A on *Angiostrongylus cantonensis* infection and eosinophilia in mice	997
E. A. MILBOURNE and M. J. HOWELL	Eosinophil differentiation in response to *Fasciola hepatica* and its excretory/secretory antigens	1005
G. O. ORINDA, D. J. WALTISBUHL, K. RODE-BRAMANIS and B. V. GOODGER	Isolation, initial characterization and serological studies of glycolipid antigens from *Babesia bovis*-infected erythrocytes	1011
E. H. BARNES and R. J. DOBSON	Persistence of acquired immunity to *Trichostrongylus colubriformis* in sheep after termination of infection	1019
J. B. WILLIAMS	Epidermal ultrastructure of the adult parasitic phase female and encapsulated larva of *Kronborgia isopodicola* (Platyhelminthes, Fecampiidae): phylogenetic implications	1027
S. T. HALL, G. A. ODGERS and A. M. GERO	Nucleoside transport in *Crithidia luciliae*	1039
N. B. CHILTON and C. M. BULL	Interspecific differences in microhabitat choice by two species of Australian reptile tick	1045
H. R. ANDERSON, I. FAIRWEATHER, D. R. BAMFORD and W. I. MONTGOMERY	The effect of diamphenethide on protein synthesis by the liver fluke, *Fasciola hepatica*	1053
Research Notes		
J. P. OPDEBEECK and B. SLACEK	An attempt to protect cats against infestation with *Ctenocephalides felis felis* using gut membrane antigens as a vaccine	1063
H. HOSTE, R. B. GASSER, N. B. CHILTON, S. MALLET and I. BEVERIDGE	Lack of intraspecific variation in the second internal transcribed spacer (ITS-2) of *Trichostrongylus colubriformis* ribosomal DNA	1069
C. M. D. MILLER, M. J. HOWELL and J. C. BORAY	Host effects on glutathione S-transferase activity in *Fasciola hepatica*	1073

E. BAÉZA, I. POITOU and C. BOULARD	*In vitro* effects of *Fasciola hepatica* on the main functions of polymorphonuclear leukocytes: chemotaxis and free radical generation induced by phagocytosis	1077
I. BANKOV and J. BARRETT	Sphingomyelin synthesis in *Ascaridia galli*	1083
G. N'ZOBADILA, J. CABARET and N. GASNIER	Allozyme variations between sheep or rabbit laboratory reared and goat wild populations of *Trichostrongylus colubriformis*	1087
	Erratum	1091
	Instructions to Contributors	i
	List of Contents, Author Index and Key Word Index	ix